SWBAT: describe charged objects

Jan 4-7:20 AM

SECA Physics
Monday 3 February 2014

Welcome!!!

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Centering

* Pick up:
  - slip of paper (for later)
  - white board, eraser, marker

Opening question:

What are some places you have encountered static electricity? DRAG FEET ON CARPET
TRAMPOLINE, SLIDES, LAUNDRY

Sep 7-7:04 AM

Daily 3 Questions

Reminder:

* Every day except test/project days
* 3 Questions on the topics of the day
* Main source of daily points
* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

Neutral and Charged Objects:

TRUE or FALSE: An object that is positively charged contains all protons and no electrons.

protons > electrons

TRUE or FALSE: An object that is electrically neutral contains only neutrons.

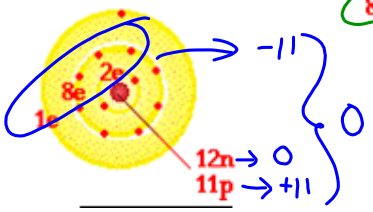
protons = electrons

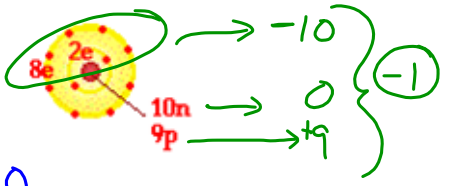
ATOMS ALWAYS HAVE PROTONS

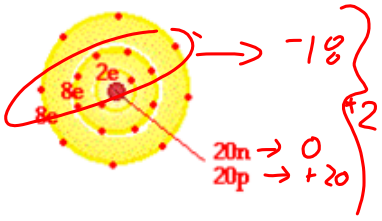
TRUE or FALSE: An object that is negatively charged could contain only electrons with no accompanying protons.

more electrons than protons

What's the charge on this atom?







Fix this statement:

"A positively charged object is an object that has extra positive electrons."

negv'ly

negv protons

fewer negv

Jan 31-7:19 AM

Conservation of Charge

means that the total charge STAYS the SAME

Electrons are only **transferred**
you can't just get more charge from nothing

Three ways to "charge" something:

- Friction = rubbing
- Contact = transfer by touching (but no rubbing)
- Induction = electrons rearranging on a conductor because of nearby charges

Feb 3-7:13 AM

Let's explore this some more:

*Check out a computer
*Log in
*Google "phet balloons" & pick 1st choice
*Work your way through the packet

Catchy Physics Phrases

Feb 3-7:31 AM

Daily 3 Questions

CP Hmwk: Explain why a balloon with extra electrons will stick to a neutral (uncharged) wall.

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Sep 9-7:32 AM

1. TRUE or FALSE: An object that is electrically neutral contains only neutrons.

prot = elec

2. When the balloon was rubbed on the sweater, what type of charge did the balloon get (positive, negative, or neutral)?

3. What type of charge did the sweater get (positive, negative, or neutral)?

Feb 1-7:52 AM